

Product datasheet for **MC229045**

Dnm1 (NM_001301737) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm1 (NM_001301737) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnm1
Synonyms:	A1838169; Dnm; Ftf; FtfI; mKIAA4093
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229045 representing NM_001301737
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAACCGCGCATGGAAGACCTCATCCCGCTGGTTAACCGTTACAGGACGCCTTCTCCGCCATCG
 GCCAGAACGCGGACCTCGACCTGCCGAGATCGCCGTTGGTAGGCGCCAGAGCGCCGCAAGAGCTCGGT
 GCTGGAGAATTCGTTGGCAGGGACTTCTTGCCTCCGAGGATCTGGCATCGTCACCCGCGCTCCCCTGGTC
 CTGCAGCTGGTTAATTCTACCACAGAATATGCCGAGTTCCTGCACTGCAAGGGGAAGAAATTCACCGACT
 TCGAGGAGGTGCGCTGGAGATCGAGGCTGAGACCGATCGAGTACCCGGCACCAACAAGGCATTTCGCC
 AGTGCCCATCAACCTGCGGGTCTACTCGCCCCATGTGCTGAACCTGACTCTAGTGGACCTGCCAGGAATG
 ACCAAGTCCCAGTTGGGACCAACCTCCTGATATCGAGTTCAGATCCGGGACATGCTTATGCAGTTTCG
 TACTAAGGAGAACTGCCTTATCCTGGCTGTGTCCCTGCCAACTCGGATTTGGCCAACCTGATGCCCT
 CAAGATCGCTAAGGAGGTGGACCCAGGGTCAGCGCACCATTTGGGGTTCATCACAAGTTGGACCTGATG
 GACGAGGGCACAGATGCGCGGGACGTGCTAGAGAAACAAGCTGCTCCCTTTCGCGCAGAGGTTACATCGGGC
 TGGTGAACCGGAGCCAGAAGGACATAGACGGCAAGAAGGACATCAGACCCGCTTGGCTGCAGAGCGCAA
 ATCTTCTCTCTCACCCATCTACCCGCACTTGGCTGACCGCATGGGCACACCTACCTGCAGAAGGTC
 CTCAATCAGCAATTGACCAACCACATCCGGGACACACTGCCGGGACTTCGGAACAAGCTGCAGAGCCAGC
 TGCTGTCCATTGAGAAGGAGGTGGACGAGTACAAGAACTCCGACCGGATGACCCAGCGCGCAAGACCAA
 GGCCCTGCTGCAGATGGTCCAGCAGTTTGCAGTGGACTTCGAGAAGCGCATCGAGGGTTCTGGAGACCAG
 ATTGACACTTACGAGCTGTCAGGTGGAGCCCGCATTACCCGATCTTCCATGAACGCTTCCCCTTTGAGC
 TGTTAAGATGGAGTTTATGAGAAGAACTGCGAAGGGAGATCAGCTATGCTATCAAAAAATACCATGG
 CATCAGGACGGGCTCTCACACCTGACCTCGCTTTTGAAGCCACAGTGAAAAAGCAGGTGCAGAAGCTC
 AAAGAGCCAGTATCAAGTGTGTGGACATGGTAGTCAGTGAACCTCACGTCCACCATCAGAAAAGTGTAGT
 AAAAGTGCAGCAATACCCGCTCTGCGGGAGGAGATGGAGCGAATTGTGACCACCCACATCCGGGAACG
 TGAGGGCCGACCAAGGAGCAGGTATGCTTCTCATCGACATTGAGCTGGCTTACATGAATACCAACCAC
 GAAGACTTCATAGGCTTTGCCAATGCTCAGCAGAGAAGCAACCAGATGAACAAGAAGAAGACTTCAGGGA
 ACCAGGATGAGATTCTGGTCATTGAAAGGGTGGTTGACCATCAACAACATCGGCATCATGAAGGGAGG
 CTCCAAGGAGTACTGGTTTGTGCTGACTGCTGAGAATCTGTCTGTTACAAGGATGATGAGGAGAAAGAG
 AAGAAGTACATGTGCTGTGGACAATCTGAAGCTGCGTATGTGAGAAGGGCTTCATGTCAAGCAAGC
 ATATTTTTGCCCTCTTAACACAGAGCAGAGGAATGTCTACAAGGATTACCGGCAGCTGGAAGTGGCCTG
 TGAGACACAGGAGGAGGTGGACAGTTGGAAGGCTTCTTCTGAGGGCTGGCGTGTACCCTGAGCGTGT
 GGGGACAAAGAGAAAGCCAGTGAGACCGAGGAGAACGGCTCTGACAGCTTCATGCACTCGATGGACCTC
 AGCTGGAGCGCCAGGTGGAGACCATCCGGAACCTGGTAGACTCGTACATGGCCATTGTCAACAAGACTGT
 GCGGGACCTCATGCCAAGACCATATGCACCTCATGATCAACAACCAAGGAGTTTATCTTCTCTGAG
 CTGCTGGCCAACCTGACTCTTGCGGGGACCAGAACACTGATGGAAGAATCGGCCGAGCAGGCTCAGC
 GCGCGACGAGATGCTGCGCATGTACCACGACTGAAGGAGGCGCTCAGTATTATCGCGACATCAACAC
 GACCACCGTCAGCACGCCCATGCCCCGCCCCGTTGGACGACTCTGGCTGCAGGTGCAGAGCGTACCGGCC
 GGACGCAGATCGCCACGTCCAGCCCCACGCCGACGCGGAGCCCGCCGTCGCCCCAGCCCGGCCCG
 GATCGCGGGGCCCTGCTCCTGGGCTCCGCTGCTGGATCCGCCCTGGGGGGGGCCCGCCCGTGCCTC
 CAGGCCGGGGCTTCCCCTGACCCCTTTGGCCCCCTCCCGAGGTGCCCTCGCGCCCAACCGCGCCCGC
 CCTGGGTCCCCAGAATCACTATCAGTGACCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001301737
Insert Size: 2556 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001301737.1, NP_001288666.1</u>
RefSeq Size:	3295 bp
RefSeq ORF:	2556 bp
Locus ID:	13429
UniProt ID:	<u>P39053</u>
Cytogenetics:	2 22.09 cM
Gene Summary:	<p>This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein is a GTPase which is required for membrane recycling, including vesicle endocytosis in neurons. It may also be involved in cellular fission via association with microtubules and actin filaments. Mutations in this gene have been shown to cause seizures. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]</p> <p>Transcript Variant: This variant (2) has multiple differences in the coding region, one of which results in a frameshift, compared to variant 1. The resulting protein (isoform 2) has a distinct C-terminus and is shorter than isoform 1. This variant contains the alternate 'a' exon in the central coding region and the 'b' splicing pattern in the 3' coding region (PMID:10398046, PMID:20700442).</p>